



Cisco 40-Gigabit Ethernet Transceiver Modules Compatibility Matrix

Revised: January 13, 2014



Note

For the clearest readability of these tables, use the PDF version located in the upper right-side of your browser screen. The HTML version might misalign the table data.



Note

Because requirements and procedures for initial configurations and software upgrades tend to change, you should always refer to the switch or router software release notes for the latest information. Before installing, configuring, or upgrading a switch, refer to the product release notes on Cisco.com for the latest information. This compatibility matrix does not replace or supercede the release notes.

This publication lists the Cisco platforms and the minimum required software versions to support 40-Gigabit Ethernet transceiver modules. [Table 1](#) lists the model numbers and operating wavelengths for the available 40-Gigabit Ethernet transceiver modules.

Table 1 **40-Gigabit Ethernet Transceiver Modules**

Model Number	Transceiver Description
QSFP+ Transceivers	
QSFP-40G-SR4=	40GBASE-SR4 QSFP+ transceiver module for MMF, 4-lanes, 850-nm wavelength, 12-fiber MPO/MTP connector
QSFP-40G-CSR4=	40GBASE-CSR4 QSFP+ transceiver module for MMF, 4-lanes, 850-nm wavelength, 12-fiber MPO/MTP connector, 300 m reach with OM3 fiber
FET-40G=	40G Fabric Extender Transceiver in QSFP form factor, 4-lanes, 850-nm wavelength, 12-fiber MPO/MTP connector, 100m reach with OM3 fiber
QSFP-40G-SR-BD=	40G QSFP Bi-Directional transceiver module, Duplex Multi-mode Fiber, LC Duplex connector, 100m reach with OM3 fiber
QSFP-40GE-LR4=	40GBASE-LR4 QSFP40G transceiver module for Single Mode Fiber, 4 CWDM lanes in 1310nm window Muxed inside module, Duplex LC connector, 10km, 40G Ethernet rate only



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Table 1 40-Gigabit Ethernet Transceiver Modules (continued)

Model Number	Transceiver Description
QSFP-40G-LR4=	40GBASE-LR4 QSFP40G transceiver module for Single Mode Fiber, 4 CWDM lanes in 1310nm window Muxed inside module, Duplex LC connector, 10km, Multi-rate Support (40G Ethernet and OTU3)
QSFP-4SFP10G-CU5M=	40GBASE-CR4 QSFP+ to four 10GBASE-CU SFP+ direct attach breakout cable assembly, 5 meter passive
QSFP-4SFP10G-CU3M=	40GBASE-CR4 QSFP+ to four 10GBASE-CU SFP+ direct attach breakout cable assembly, 3 meter passive
QSFP-4SFP10G-CU1M=	40GBASE-CR4 QSFP+ to four 10GBASE-CU SFP+ direct attach breakout cable assembly, 1 meter passive
QSFP-4x10G-AC7M=	40GBASE-CR4 QSFP+ to four 10GBASE-CU SFP+ direct attach breakout cable assembly, 7 meter active
QSFP-4x10G-AC10M=	40GBASE-CR4 QSFP+ to four 10GBASE-CU SFP+ direct attach breakout cable assembly, 10 meter active
QSFP-H40G-CU5M=	40GBASE-CR4 QSFP+ direct-attach copper cable, 5 meter passive
QSFP-H40G-CU3M=	40GBASE-CR4 QSFP+ direct-attach copper cable, 3 meter passive
QSFP-H40G-CU1M=	40GBASE-CR4 QSFP+ direct-attach copper cable, 1 meter passive
QSFP-H40G-ACU7M=	40GBASE-CR4 QSFP+ direct-attach copper cable, 7 meter active
QSFP-H40G-ACU10M=	40GBASE-CR4 QSFP+ direct-attach copper cable, 10 meter active
QSFP-4X10G-AOC1M=	40GQSFP to four 10G SFP+ direct attach breakout Active Optical cable assembly, 1 meter
QSFP-4X10G-AOC2M=	40GQSFP to four 10G SFP+ direct attach breakout Active Optical cable assembly, 2 meter
QSFP-4X10G-AOC3M=	40GQSFP to four 10G SFP+ direct attach breakout Active Optical cable assembly, 3 meter
QSFP-4X10G-AOC5M=	40GQSFP to four 10G SFP+ direct attach breakout Active Optical cable assembly, 5 meter
QSFP-4X10G-AOC7M=	40GQSFP to four 10G SFP+ direct attach breakout Active Optical cable assembly, 7 meter
QSFP-4X10G-AOC10M=	40GQSFP to four 10G SFP+ direct attach breakout Active Optical cable assembly, 10 meter
QSFP-H40G-AOC1M=	40G QSFP direct-attach Active Optical cable, 1 meter
QSFP-H40G-AOC2M=	40G QSFP direct-attach Active Optical cable, 2 meter
QSFP-H40G-AOC3M=	40G QSFP direct-attach Active Optical cable, 3 meter
QSFP-H40G-AOC5M=	40G QSFP direct-attach Active Optical cable, 5 meter
QSFP-H40G-AOC7M=	40G QSFP direct-attach Active Optical cable, 7 meter
QSFP-H40G-AOC10M=	40G QSFP direct-attach Active Optical cable, 10 meter
QSFP-H40G-AOC15M=	40G QSFP direct-attach Active Optical cable, 15 meter
CVR-QSFP-SFP10G=	Cisco QSFP to SFP/SFP+ Adapter module

Table 1 40-Gigabit Ethernet Transceiver Modules (continued)

Model Number	Transceiver Description
CFP Transceivers	
CVR-CFP-4SFP10G=	Cisco FourX CFP to four SFP+ converter module Please see the Cisco 10-Gigabit Ethernet Transceiver Modules Compatibility Matrix
CFP-40G-SR4=	Cisco 40GBASE-SR4 CFP transceiver module for MMF, 4-lanes, 850-nm wavelength, 12-fiber MPO/MTP connector
CFP-40G-LR4=	Cisco multirate 40GBASE-LR4 and OTU3 C4S1-2D1 for SMF, 1310-nm window, SC duplex connector
CFP-40G-FR=	Cisco 40GBASE-FR serial 40G, 1550-nm, SC duplex connector, 2 km reach

Table 2 lists the Cisco data center platforms that support the 40-Gigabit Ethernet transceiver modules and the minimum software requirements.

Table 2 Data Center Switching Minimum Software Release Requirements

Platform	Switch or Module	Transceiver Model	Minimum Software Release Required	
			DOM Support	Cisco IOS or NX-OS Release
Cisco Nexus 2000 Series	N2K-C2248PQ	QSFP-40G-SR4 QSFP-40G-CSR4 QSFP-H40G-ACU7M QSFP-H40G-ACU10M QSFP-4x10G-AC7M QSFP-4x10G-AC10M QSFP-4SFP10G-CU5M QSFP-4SFP10G-CU3M QSFP-4SFP10G-CU1M QSFP-H40G-CU5M QSFP-H40G-CU3M QSFP-H40G-CU1M	—	NX-OS 6.0(2)N1(1)
		FET-40G QSFP-40GE-LR4	—	NX-OS 6.0(2)N1(2)

Table 2 Data Center Switching Minimum Software Release Requirements (continued)

Platform	Switch or Module	Transceiver Model	Minimum Software Release Required	
			DOM Support	Cisco IOS or NX-OS Release
Cisco Nexus 3000 Series	N3K-C3064PQ	QSFP-40G-SR4	—	NX-OS 5.0(3)U1(1d)
		QSFP-4SFP10G-CU5M		
	N3K-C3064PQ-10GE	QSFP-4SFP10G-CU3M	—	NX-OS 5.0(3)U1(2)
		QSFP-4SFP10G-CU1M		
	N3K-C3064PQ-10GX	QSFP-H40G-CU5M	—	NX-OS 5.0(3)U3(1)
		QSFP-H40G-CU3M		
	N3K-C3016Q-40GE	QSFP-H40G-CU1M	—	NX-OS 5.0(3)U2(2a)
		QSFP-40GE-LR4		
	N3K-C3064PQ	QSFP-40GE-LR4	—	NX-OS 6.0(2)U1(2)
		QSFP-40G-SR4	—	NX-OS 5.0(3)U1(2)
	N3K-C3064PQ-10GE	QSFP-4SFP10G-CU5M	—	NX-OS 5.0(3)U1(2)
		QSFP-4SFP10G-CU3M		
N3K-C3064PQ-10GX	QSFP-4SFP10G-CU1M	—	NX-OS 5.0(3)U3(1)	
	QSFP-H40G-CU5M			
N3K-C3016Q-40GE	QSFP-H40G-CU3M	—	NX-OS 5.0(3)U2(2a)	
	QSFP-H40G-CU1M			
N3K-C3016Q-40GE	QSFP-40G-SR4	—	NX-OS 5.0(3)U2(2a)	
	QSFP-4SFP10G-CU5M			
N3K-C3016Q-40GE	QSFP-4SFP10G-CU3M	—	NX-OS 5.0(3)U2(2a)	
	QSFP-4SFP10G-CU1M			
N3K-C3016Q-40GE	QSFP-H40G-CU5M	—	NX-OS 5.0(3)U2(2a)	
	QSFP-H40G-CU3M			
N3K-C3016Q-40GE	QSFP-H40G-CU1M	—	NX-OS 5.0(3)U2(2a)	
	QSFP-40GE-LR4			—

Table 2 Data Center Switching Minimum Software Release Requirements (continued)

Platform	Switch or Module	Transceiver Model	Minimum Software Release Required				
			DOM Support	Cisco IOS or NX-OS Release			
Cisco Nexus 5000 Series	N55-M4Q	QSFP-40G-SR4 QSFP-40G-CSR4 QSFP-40GE-LR4 QSFP-4x10G-AC7M QSFP-4x10G-AC10M QSFP-H40G-ACU7M QSFP-H40G-ACU10M QSFP-H40G-CU1M QSFP-H40G-CU3M QSFP-H40G-CU5M QSFP-4SFP10G-CU1M QSFP-4SFP10G-CU3M QSFP-4SFP10G-CU5M FET-40G	—	NX-OS 6.0(2)N1(2)			
Cisco Nexus 6000 Series	N604-96Q-B-24Q N6K-C6004-M12Q	QSFP-40G-SR4 QSFP-40G-CSR4 QSFP-4x-10G-AC7M QSFP-4x10G-AC10M QSFP-H40G-ACU7M QSFP-H40G-ACU10M QSFP-H40G-CU5M QSFP-H40G-CU3M QSFP-H40G-CU1M	—	NX-OS 6.0(2)N1(1)			
					FET-40G QSFP-40GE-LR4	—	NX-OS 6.0(2)N1(2)
					QSFP-40G-SR-BD	—	NX-OS 7.0(0)N1(1)
					CVR-QSFP-SFP10G	—	NX-OS 6.0(2)N2(1)
	N6K-C6001-64P	QSFP-40G-SR4 QSFP-40G-CSR4 QSFP-40GE-LR4 QSFP-4x10G-AC7M QSFP-4x10G-AC10M QSFP-H40G-ACU7M QSFP-H40G-ACU10M QSFP-H40G-CU1M QSFP-H40G-CU3M QSFP-H40G-CU5M QSFP-4SFP10G-CU1M QSFP-4SFP10G-CU3M QSFP-4SFP10G-CU5M FET-40G	—	NX-OS 6.0(2)N1(2)			

Table 2 Data Center Switching Minimum Software Release Requirements (continued)

Platform	Switch or Module	Transceiver Model	Minimum Software Release Required	
			DOM Support	Cisco IOS or NX-OS Release
Cisco Nexus 7000 Series	N7K-M206FQ-23L	QSFP-40G-SR4	—	NX-OS 6.1(1)
		QSFP-40G-CSR4	—	NX-OS 6.2(2)
		QSFP-40GE-LR4	NX-OS 6.1(4)	NX-OS 6.1(4)
		QSFP-H40G-ACU7M		NX-OS 6.2(2)
		QSFP-H40G-ACU10M		
N7K-M202CF-22L	CFP-40G-SR4 CFP-40G-LR4	NX-OS 6.1(2)	NX-OS 6.1(2)	
N7K-F312FQ-25	QSFP-40G-SR-BD QSFP-40G-SR4 QSFP-40G-CSR4 QSFP-40GE-LR4 FET-40G	—	NX-OS 6.2(6)	
N77-F324FQ-25	QSFP-40G-SR-BD QSFP-40G-SR4 QSFP-40G-CSR4 QSFP-40GE-LR4	—	NX-OS 6.2(6)	
Cisco Nexus 9000 Series	N9K-C93128TX	QSFP-40G-SR-BD	6.1(2)I1(1)	6.1(2)I1(1)
	N9K-C9396PX	QSFP-40G-SR4		
	N9K-C93128PX	QSFP-40G-CSR4		
	N9K-C9396TX	QSFP-40GE-LR4		
	N9K-X9564PX	QSFP-4x10G-AC7M		
	N9K-C9336PQ	QSFP-4x10G-AC10M		
	N9K-X9636PQ	QSFP-H40G-CU1M		
	N9K-X9736PQ	QSFP-H40G-CU3M		
	N9K-X9564TX	QSFP-H40G-CU5M QSFP-H40G-ACU7M QSFP-H40G-ACU10M		
Catalyst 6500 Series	WS-X6904-40G-2T	CFP-40G-SR4	15.0(1)SY1	15.0(1)SY1
	WS-X6904-40G-2TXL	CFP-40G-LR4		
		CVR-CFP-4SFP10G		

Table 3 lists the Cisco router platforms that support the 40-Gigabit Ethernet transceiver modules and the minimum software requirements.

Table 3 Router Support and Minimum Software Release Requirements

Platform	Switch or Module	Transceiver Model	Minimum Software Release Required	
			DOM Support	Cisco IOS or NX-OS Release
CRS Router	4-40GE-LAN/OTN 4-40GE-LAN 2-40GE-LAN/OTN	CFP-40G-SR4 CFP-40G-LR4 CFP-40G-FR	XR 4.2.3	XR 4.2.3
ASR 9000 Series Router	A9K-MPA-1X40GE A9K-MPA-2X40GE	QSFP-40G-SR4 QSFP-40G-LR4 QSFP-40GE-LR4	—	XR 4.2.3
		QSFP-40GE-CSR4	—	XR 4.3.2

Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, using the Cisco Bug Search Tool (BST), submitting a service request, and gathering additional information, see *What's New in Cisco Product Documentation* at: <http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html>.

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